

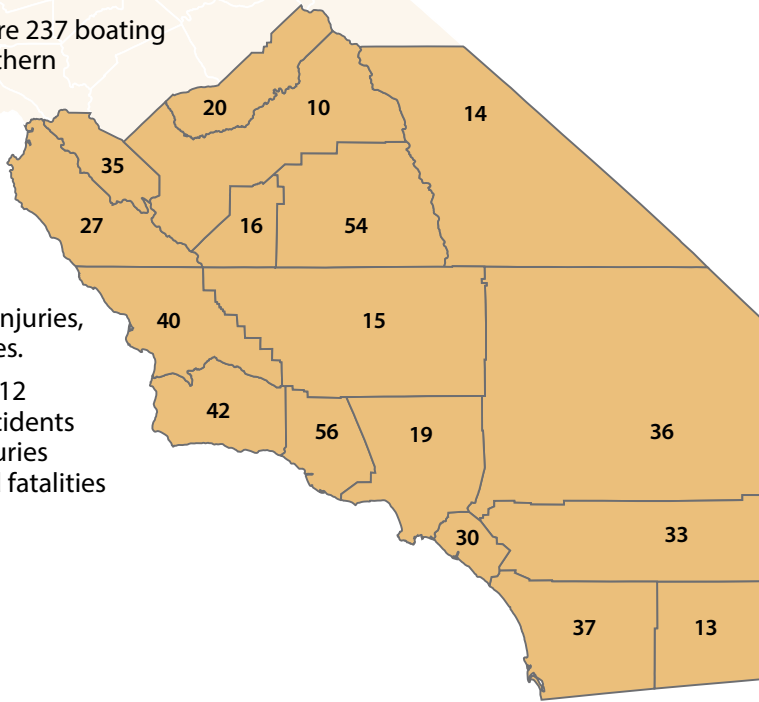


## 2013 California Recreational Boating Accident General Statistics for Southern California

In 2013, there were 237 boating accidents in Southern California that resulted in 100 injuries and 6 fatalities.

These accidents represented 45% of all accidents statewide, 37% of injuries, and 16% of fatalities.

Compared with 2012 accident totals, accidents increased 22%, injuries increased 30% and fatalities decreased 63%.



Includes accident statistics for the following counties:

County Number	County
10	Fresno
13	Imperial
14	Inyo
15	Kern
16	Kings
19	Los Angeles
20	Madera
27	Monterey
30	Orange
33	Riverside
35	San Benito
36	San Bernardino
37	San Diego
40	San Luis Obispo
42	Santa Barbara
54	Tulare
56	Ventura

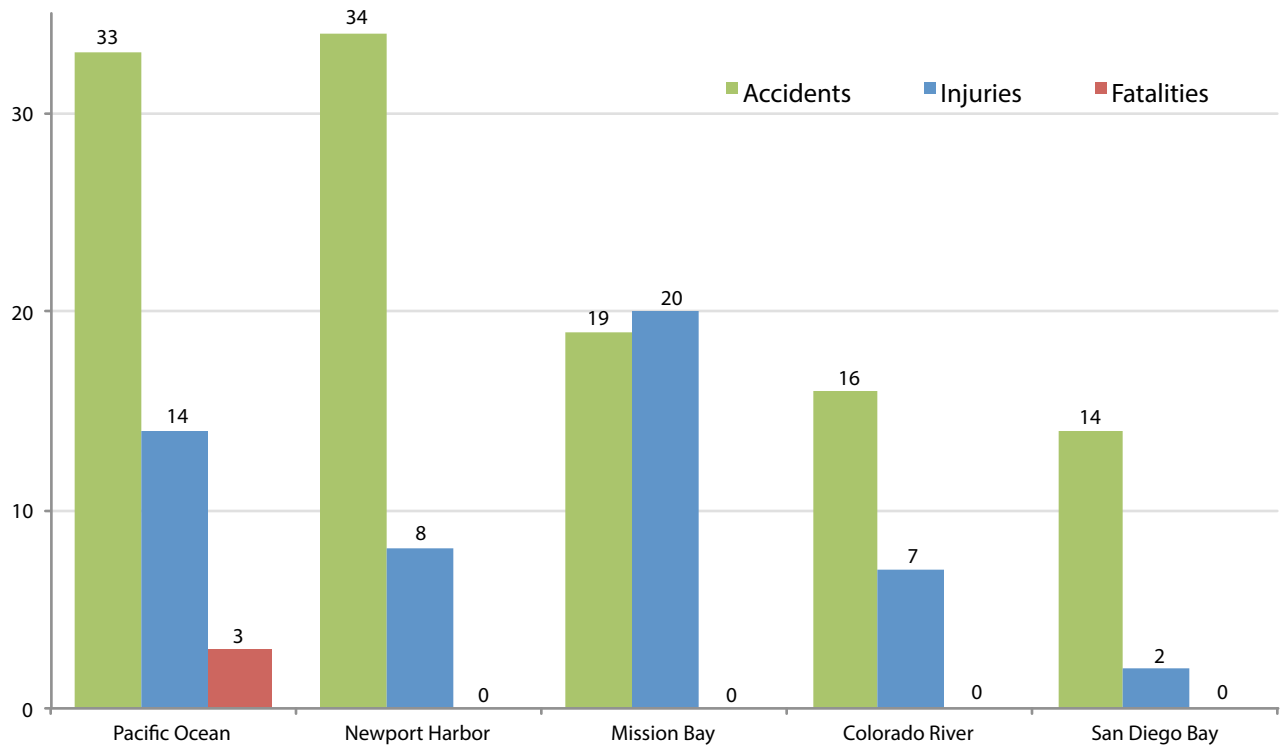
## Southern California Boating Accidents by Location 2012-2013

Location	2012			2013		
	Accidents	Injuries	Fatalities	Accidents	Injuries	Fatalities
Southern Coast	125	39	9	148	51	4
Southern Lake	48	24	6	73	42	2
Southern River	2	0	0	0	0	0
Colorado River	20	14	1	16	7	0
<b>Totals</b>	<b>195</b>	<b>77</b>	<b>16</b>	<b>237</b>	<b>100</b>	<b>6</b>



# SOUTHERN CALIFORNIA

## 2013 Top Southern California Boating Accident Areas



# Colorado River

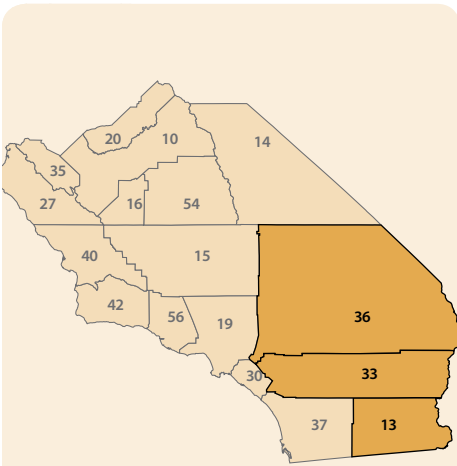
## Colorado River

The Colorado River forms the border between California and Arizona. San Bernardino, Riverside and Imperial Counties all share a piece of the river.

In 2013, 16 accidents occurred on the Colorado River. These accidents resulted in 8 injuries and 0 fatalities.

These accidents represented 7% of all accidents in Southern California, 8% of injuries, and 0% of fatalities.

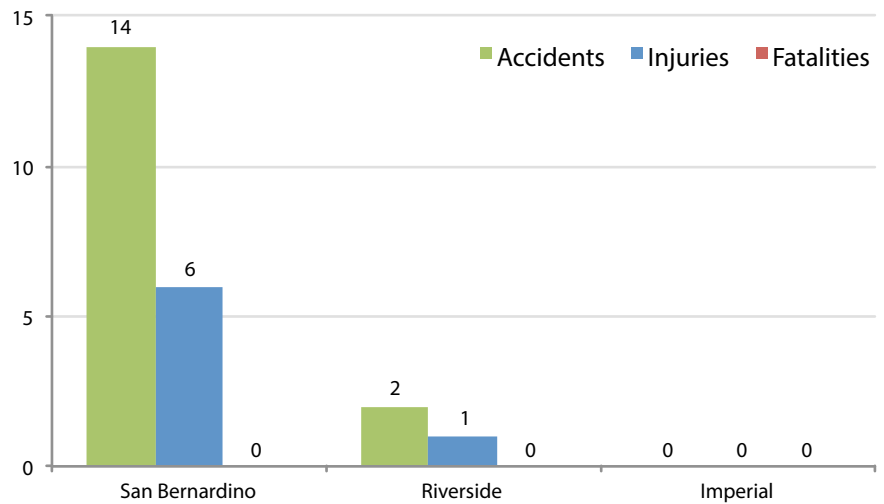
Accidents on the Colorado River accounted for 3% of all accidents in California, 3% of injuries, and 0% of fatalities.



Includes accident statistics for the following counties:

County Number	County
13	Imperial
33	Riverside
36	San Bernardino

### 2013 Colorado River Boating Accidents by County



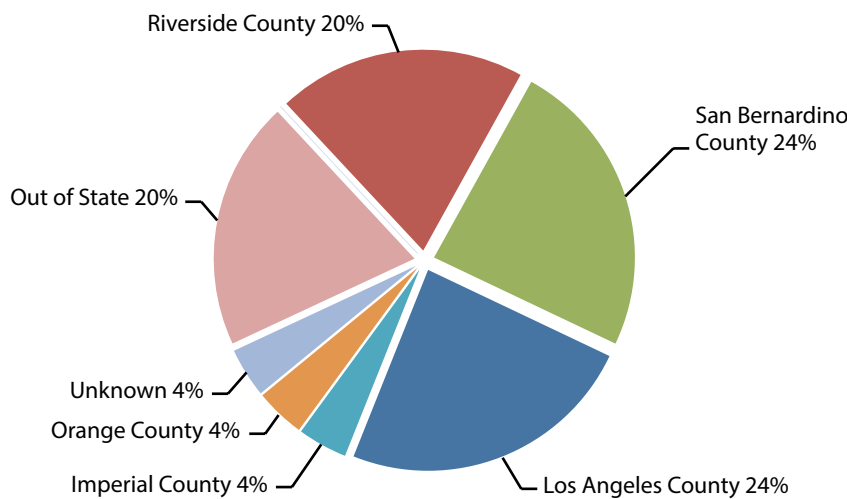
Colorado River County	2009			2010			2011			2012			2013			5-Year Total		
	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fat.	Acc.	Inj.	Fatalities
San Bernardino	23	23	2	23	20	2	17	18	4	19	13	1	14	6	0	96	80	9
Riverside	4	3	0	4	5	0	4	5	0	1	1	0	2	1	0	15	15	0
Imperial	3	4	1	4	3	1	4	1	0	0	0	0	0	0	0	11	8	2
<b>Total Colorado River Combined</b>	<b>30</b>	<b>30</b>	<b>3</b>	<b>31</b>	<b>28</b>	<b>3</b>	<b>25</b>	<b>24</b>	<b>4</b>	<b>20</b>	<b>14</b>	<b>1</b>	<b>16</b>	<b>7</b>	<b>0</b>	<b>122</b>	<b>103</b>	<b>11</b>



## Noteworthy Accident Statistics

Colorado River	Colorado River	Southern California	California
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	50%	45%	34%
Operator Inattention	50%	40%	35%
Excessive Speed	38%	21%	21%
Open Motorboats	75%	49%	53%
Personal Watercraft	50%	19%	16%
<b>Percent of Operators that are...</b>			
The Owner of the Vessel	60%	34%	41%
<b>Percent of Accidents Occurring on..</b>			
Weekends	69%	60%	60%
Holiday Weekends	31%	12%	14%

### Residence of Operator/Owner Involved in Accidents on the Colorado River



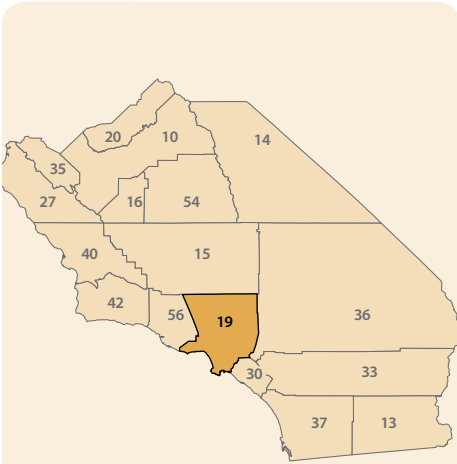
### Distance Traveled

(Residence to Accident Location)

Distance Traveled	Percent of Operators
Under 20 miles	12%
20-100 miles	4%
101-200 miles	8%
201-300 miles	56%
Over 300 miles	16%
Unknown	4%

*only 16% of boaters involved in accidents were from local areas along the river.*

# Los Angeles County



Includes accident statistics for the following county:

County Number	County
19	Los Angeles

## Los Angeles County

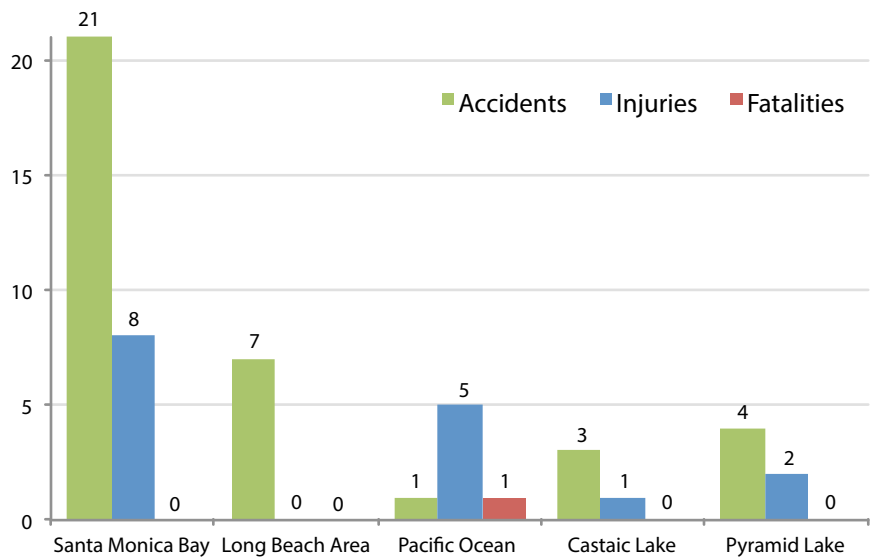
As of December 31, 2013, there were 98,748 vessels registered in Los Angeles County—more than any other county—12% of the statewide total.

Thirty six accidents occurred in Los Angeles County, resulting in 16 injuries, and 1 fatality.

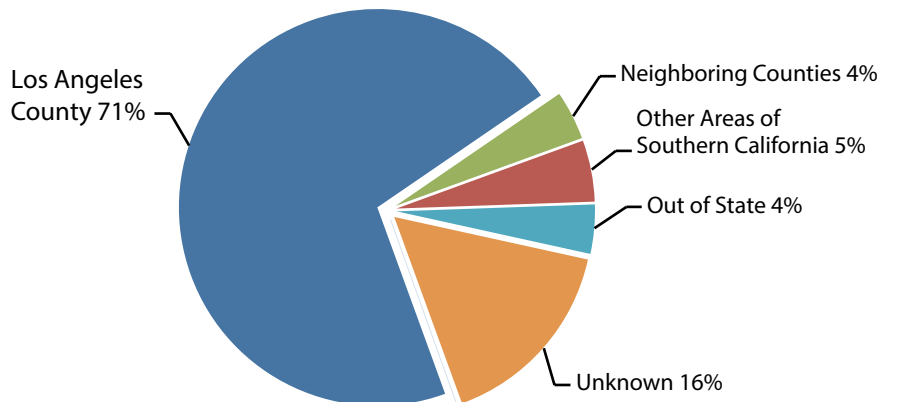
These accidents represented 15% of all accidents in Southern California, 16% of injuries, and 17% of fatalities.

Accidents in Los Angeles County accounted for 7% of accidents in California, 6% of injuries, and 3% of fatalities.

### 2013 Los Angeles County Boating Accidents by Location



### Residence of Owners/Operators Involved in Accidents in Los Angeles County





## Noteworthy Accident Statistics

Los Angeles Coast	Los Angeles Coast	Southern California	California
<b>Percent of Accidents Involving</b>			
Collision with Fixed Object	17%	5%	5%
Flooding/Swamping	31%	17%	19%
Cabin Motorboats	55%	26%	18%
Auxiliary Sailboats	34%	18%	12%
<b>Percent of Operators that are...</b>			
Over 40 Years Old	67%	46%	53%

# Orange County

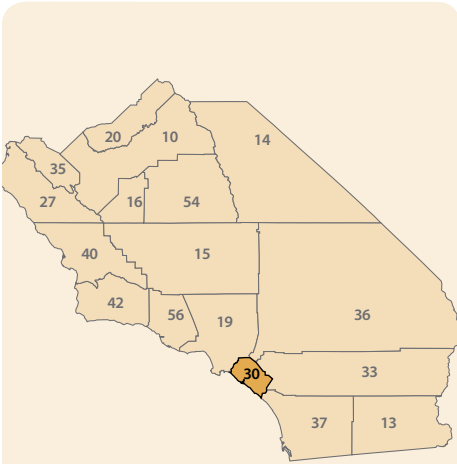
## Orange County

As of December 2013, there were 57,323 vessels registered in Orange County, 7% of the statewide total.

Sixty accidents occurred in Orange County, resulting in 11 injuries and 0 fatalities.

These accidents represented 25% of all accidents in Southern California, 11% of injuries, and 0% of fatalities.

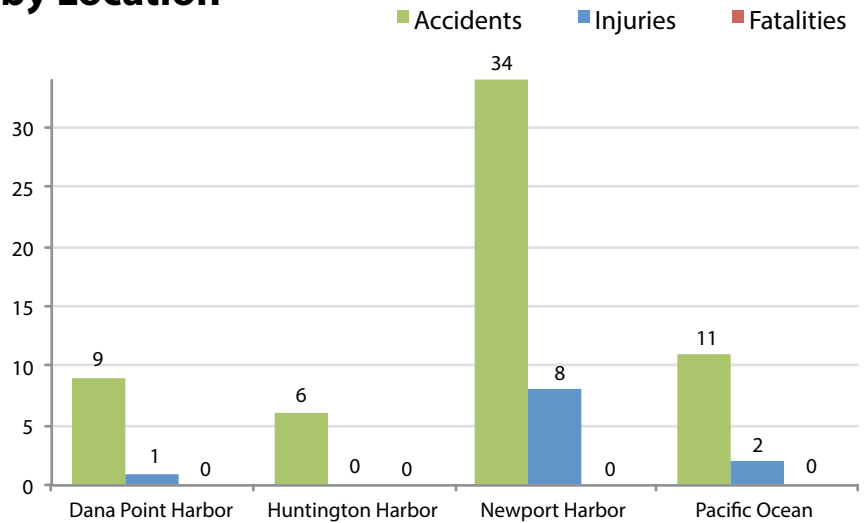
Accidents in Orange County accounted for 11% of accidents in California, 4% of injuries, and 0% of fatalities.



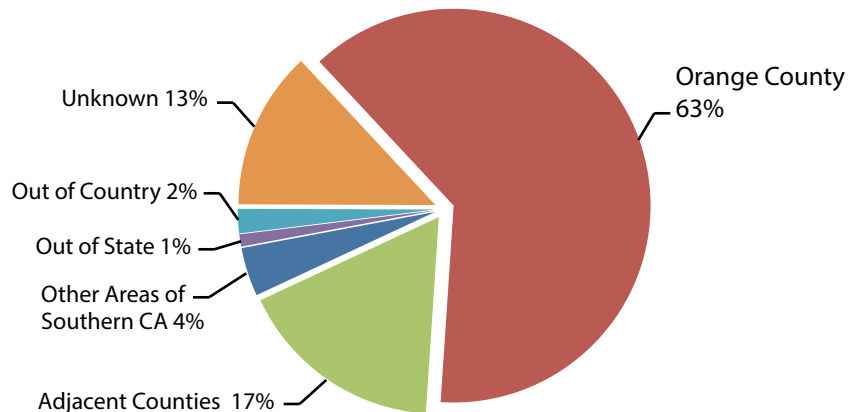
Includes accident statistics for the following county:

County Number	County
30	Orange

## 2013 Orange County Boating Accidents by Location



## Residence of Owners/Operators Involved in Accidents in Orange County





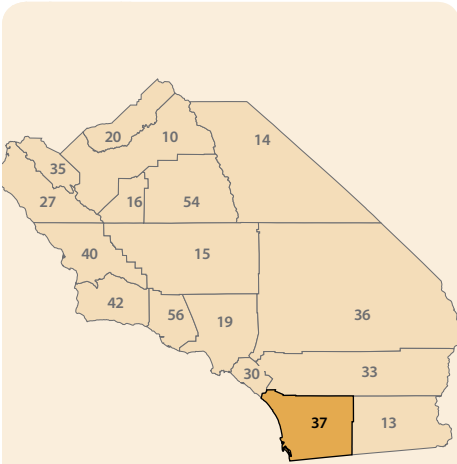
## Noteworthy Accident Statistics

<b>Orange County Coast</b>	<b>Orange County</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Fixed Object	18%	5%	5%
Groundings	55%	10%	11%
Operator Inexperience	45%	25%	20%
Machinery/Equipment Failure	45%	18%	14%
Auxiliary Sailboats	27%	18%	12%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessels	42%	23%	23%
Operating Rented Vessels	25%	11%	9%
<b>Percent of Accidents Occurring on..</b>			
Weekends	73%	60%	60%
Holiday Weekends	18%	12%	14%

<b>Newport Bay</b>	<b>Newport Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving</b>			
Collision with Vessel	65%	45%	34%
Cabin Motorboats	44%	26%	18%
Auxiliary Sailboats	24%	18%	12%



# San Diego County



Includes accident statistics for the following county:

County Number	County
37	San Diego

## San Diego County

As of December 31, 2013, there were 58,917 vessels registered in San Diego County, 7% of the statewide total.

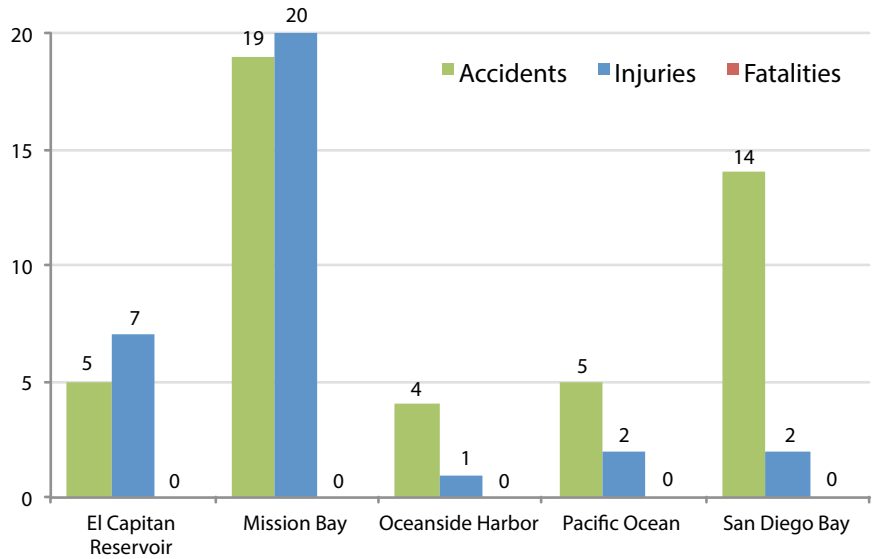
Forty-seven accidents occurred in San Diego County, resulting in 32 injuries and 1 fatality.

Accidents in San Diego County represented 20% of accidents in

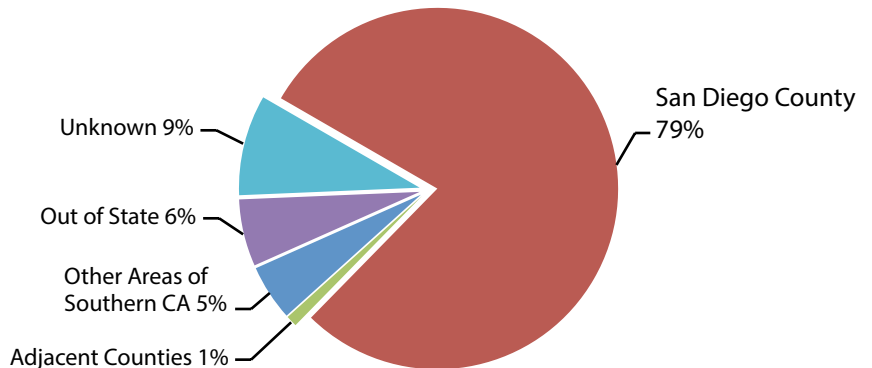
Southern California, 32% of injuries, and 17% of fatalities.

These accidents represented 9% of all accidents in California, 12% of injuries, and 3% of fatalities.

### 2013 San Diego County Boating Accidents by Location



### Residence of Owners/Operators Involved in Accidents in San Diego County





## Noteworthy Accident Statistics

<b>Mission Bay</b>	<b>Mission Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving...</b>			
Collision with Vessel	37%	45%	34%
Excessive Speed	53%	21%	21%
Personal Watercraft	53%	19%	16%
Towing Sports	32%	11%	15%
<b>Percent of Operators that are...</b>			
Operating Borrowed Vessels	39%	23%	23%
Operating Rented Vessels	32%	11%	9%
Under 18 Years Old	12%	5%	4%
40 Years Old and Under	73%	54%	47%
<b>Percent of Accidents Occurring on..</b>			
Weekends	79%	60%	60%

<b>San Diego Bay</b>	<b>San Diego Bay</b>	<b>Southern California</b>	<b>California</b>
<b>Percent of Accidents Involving</b>			
Flooding/Swamping	36%	17%	19%
Fires (all types)	21%	5%	5%
Machinery/Equipment Failure	36%	18%	14%
Cabin Motorboats	43%	26%	18%
<b>Percent of Operators that are...</b>			
Operating Rented Vessels	14%	11%	9%
40 Years Old and Under	70%	54%	47%

# SOUTHERN CALIFORNIA



	Calif	So. Calif	Colorado River	L.A. County	L.A. Coast	Orange County	Newport Bay	O.C. Coast	San Diego County	Mission Bay	San Diego Bay
<b>Types-Percent of Accidents Involving...</b>											
Collisions with Other Vessels	34%	45%	50%	42%	34%	53%	65%	9%	34%	37%	43%
Collisions with Fixed Objects	5%	5%	0%	14%	17%	7%	6%	18%	4%	5%	0%
Collisions with Submerged Objects	2%	2%	0%	6%	7%	0%	0%	0%	0%	0%	0%
Capsizings	8%	6%	0%	14%	17%	3%	3%	9%	4%	0%	7%
Flooding/Swamping	19%	17%	25%	25%	31%	18%	21%	9%	15%	0%	36%
Groundings	11%	10%	11%	11%	14%	12%	3%	55%	6%	5%	0%
Falls Overboard	8%	5%	3%	3%	3%	2%	0%	9%	2%	11%	14%
Fires (all types)	5%	5%	0%	0%	0%	7%	3%	9%	9%	5%	21%
Towing Sport Accidents	15%	11%	0%	0%	0%	0%	0%	0%	19%	32%	0%
<b>Causes-Percent of Accidents Involving...</b>											
Operator Inexperience	20%	25%	19%	28%	17%	28%	21%	45%	19%	26%	21%
Operator Inattention	35%	40%	50%	47%	41%	28%	29%	36%	34%	37%	36%
Excessive Speed	21%	21%	38%	19%	14%	10%	9%	18%	32%	53%	14%
Machinery/Equipment Failure	14%	18%	6%	19%	24%	23%	9%	45%	21%	5%	36%
Hazardous Weather/ Water	6%	4%	0%	11%	14%	5%	6%	9%	0%	0%	0%
<b>Types of Vessels-Percent of Accidents Involving...</b>											
Open Motorboats	53%	49%	75%	17%	14%	43%	53%	27%	43%	47%	43%
Cabin Motorboats	18%	26%	13%	50%	55%	40%	44%	18%	19%	0%	43%
Personal Watercraft	16%	19%	50%	19%	10%	3%	0%	18%	26%	53%	0%
Auxiliary Sailboats	12%	18%	0%	28%	34%	27%	24%	27%	15%	5%	14%
<b>Ownership-Percent of Vessels...</b>											
Operated by Owner	41%	34%	60%	29%	27%	28%	23%	33%	33%	25%	32%
Borrowed	23%	23%	28%	27%	18%	17%	17%	42%	31%	39%	23%
Rented	9%	11%	4%	5%	7%	8%	7%	25%	18%	32%	14%
No Operator or Unknown	27%	31%	8%	39%	48%	47%	54%	0%	17%	4%	32%
<b>Operator Age-Percent of Operators Involved in Accidents (does not include unknowns)</b>											
Under 18 Years Old	4%	5%	0%	3%	0%	7%	7%	10%	9%	12%	0%
40 Years Old and Under	47%	54%	55%	40%	33%	46%	52%	50%	68%	73%	70%
Over 40 Years Old	53%	46%	45%	60%	67%	54%	48%	50%	32%	27%	30%
<b>Other Factors-Percent of Accidents Occurring on...</b>											
Weekends	60%	60%	69%	36%	28%	58%	50%	73%	66%	79%	50%
Holiday Weekends	14%	12%	31%	6%	7%	10%	12%	18%	9%	11%	0%

